

XFL Flexible Linear

Tunable White

Tunable White with Best Color Performance

From the warm candlelight to the daylight matching white light, the XFL Tunable White is designed to maintain its top-notch color metrics along all points of the CCT band and backed by the confidence of our 10-yr warranty.

Features/Benefits

- **Three CCT Range** - Options specifically calibrated for residential (2200K to 3000K), hospitality (2400K to 3500K), and architectural applications (2700K to 6500K)
- **World Class Color Performance** - Exceptional CRI, R9, fidelity and color gamut at all points of the CCT range.
- **Optimal Standard Density** - 192-240LEDs/m delivering lines of light with minimal to no LED pixelation.
- **Leading Edge Design** - Advanced on-board circuitry compatible with any 2-channel 24V constant voltage drivers simplifying power design and drive selection.
- **Smart Control Ready** - Pair with Xicato Xmesh to enable wireless and automated dynamic color tuning.
- **10-yr Warranty** - Peace of mind with specification-grade assurance.

Applications

Superior Illumination for:

- Hospital and Medical Offices
- Healthcare and Senior Living
- Education and Schools
- Childcare, Preschool, Daycare
- Corporate and Commercial Offices
- Retail and Department Stores
- Museums and Galleries
- WELL and Circadian Projects
- High-end Residential



RoHS



ORDERING LOGIC

Model	Voltage	Watts/Ft*		LEDs/meter		IP Rating	CCT		CRI	Spool	
XFL-TW Tunable White	24 24V	3.0	1.0W/ft	240	240 LEDs/m	22 IP 22 Rated	22/30	2200K - 3000K	95 95 CRI	SP005	5m**
XFT-TW Custom Tape		4.4	3.0W/ft	192***	192 LEDs/m***		24/35	2400K - 3500K		SP010	10m**
		5.2	4.4W/ft				27/65	2700 - 6500K***		SP030	30.5m**
		6.0	5.0W/ft							Blank****	XFT****
		5.3***	5.3W/ft***								

Spools Example: XFL-TW-243.0-24022-22/3095-SP005

Custom Tape Example: XFT-TW-243.0-24022-22/3095

* 1 Watt/foot = 3.28 Watts/meter

** 5m Spool Length = 16.4 feet

*** 2700K-6500K is 5.3W/ft, 192 LEDs/m

**** This field is left blank for XFT order codes. Contact your Xicato Sales Representative to define specific custom configurations and soldered lead wires. The detailed configuration description will be provided with the quote and order confirmation

XFT CUSTOM TAPE OPTIONS

LED TAPE

Min Length 76.2mm (3")

Max Length 4m

Increment Cuttable to Increments of 25 mm

INPUT LEAD WIRE

LEAD WIRE ONLY

Wire 20 AWG UL2464

Length 3" - 96"

Increment 1" increments

Jacket Black or White

LEAD WIRE TERMINATED WITH FEMALE CONNECTOR

Wire 20 AWG UL2464

Length Fixed 48"

Increment NA

Jacket Black or White

OPTIONAL OUTPUT LEAD WIRE

LEAD WIRE ONLY

Wire 20 AWG UL2464

Length 3" - 96"

Increment 1" increments

Jacket Black or White

LEAD WIRE TERMINATED WITH MALE CONNECTOR

Wire 20 AWG UL2464

Min / Max Fixed 48"

Increment NA

Jacket Black or White

GENERAL SPECIFICATIONS

Color Warm White + Cool White	IP Rating IP 22	Standard Spool m (ft) 5(16.4), 10(32.8), 30.5(98.4)
Beam Angle 120°	LEDs/meter 240	Operating Temp. -20°C to +60°C
CRI 95	Min Cuttable Length 25 mm (0.98")	Storage Temp. -20°C to +70°C
Input Voltage 24 VDC	Profile Width 10 mm (0.39")	Input Wire 20 AWG UL2464

SPECIFICATIONS FOR 2200K-3000K and 2400K-3500K

Model Number	CCT Range	Efficacy (lm/W)	Flux lm/m (lm/ft)	Power W/m (W/ft)	Max Run Length m (ft)
XFL-TW-243.0-24022-22/3095	2200K-3000K	≤66	≤657 (≤200)	9.84 (3)	4 (13.1)
XFL-TW-243.0-24022-24/3595	2400K-3500K	≤67	≤666 (≤203)		
XFL-TW-244.4-24022-22/3095	2200K-3000K	≤64	≤932 (≤284)	14.43 (4.4)	3 (9.8)
XFL-TW-244.4-24022-24/3595	2400K-3500K	≤65	≤945 (≤288)		
XFL-TW-245.2-24022-22/3095	2200K-3000K	≤63	≤1078 (≤328)	17.06 (5.2)	2.5 (8.2)
XFL-TW-245.2-24022-24/3595	2400K-3500K	≤64	≤1094 (≤333)		
XFL-TW-246.0-24022-22/3095	2200K-3000K	≤61	≤1208 (≤368)	19.68 (6)	2 (6.6)
XFL-TW-246.0-24022-24/3595	2400K-3500K	≤62	≤1226 (≤373)		

Notes:

1. Test environment temperature : 25±2°C.
2. Values above represent typical performance.
3. Luminous flux is tested at each CCT.
4. Luminous efficiency is a measured value.
5. Max run length is in reference to a single feed.
6. Max run length refers to operating length at UL class II @100W, 24V.
7. The luminous flux and power are listed within ±10%.

PERFORMANCE OVER CCT RANGE vs DRIVE CURRENT RATIO

Model Number	CCT (K)	Flux (lm)	Efficacy (lm/W)	Power (W)	I (A)	CW Current Ratio	WW Current Ratio	CRI	R9
XFL-TW-243.0-24022-22/3095	2249	252	46	5.52	0.23	0%	100%	96	88
	2465	252	47	5.4	0.23	31%	69%	96	91
	2720	255	48	5.35	0.22	63%	37%	97	93
	2787	256	48	5.35	0.22	72%	28%	96	93
	2963	259	49	5.34	0.22	90%	10%	96	92
XFL-TW-244.4-24022-22/3095	2249	375	44	8.47	0.35	0%	100%	96	87
	2411	377	46	8.19	0.34	23%	77%	96	91
	2714	382	48	8.04	0.34	66%	34%	96	92
	2901	373	48	7.74	0.32	87%	13%	96	92
	2953	390	48	8.04	0.34	92%	8%	96	91
XFL-TW-245.2-24022-22/3095	2247	437	43	10.08	0.42	0%	100%	96	87
	2406	437	45	9.77	0.41	25%	75%	96	90
	2621	439	46	9.51	0.4	53%	47%	96	92
	2816	447	47	9.49	0.4	76%	24%	96	92
	2962	454	48	9.39	0.39	95%	5%	96	91
XFL-TW-246-24022-22/3095	2248	480	43	11.23	0.47	0%	100%	96	86
	2403	475	44	10.81	0.45	22%	78%	96	90
	2433	475	44	10.73	0.45	27%	73%	96	90
	2693	483	47	10.3	0.43	63%	37%	96	92
	2963	499	48	10.49	0.44	94%	6%	96	90
XFL-TW-243.0-24022-24/3595	2506	237	47	5	0.21	0%	100%	96	92
	2855	254	51	4.99	0.21	34%	66%	96	97
	3046	263	52	5.03	0.21	53%	47%	97	98
	3243	274	54	5.08	0.21	66%	34%	97	97
	3522	288	56	5.15	0.21	89%	12%	97	97
XFL-TW-244.4-24022-24/3595	2527	380	47	8.05	0.34	0%	100%	96	91
	2672	392	49	8.04	0.34	18%	82%	96	94
	2939	411	51	8.05	0.34	42%	58%	96	97
	3228	438	53	8.22	0.34	70%	30%	97	98
	3514	464	55	8.42	0.35	94%	6%	97	96

Note: Measured on a 1m sample

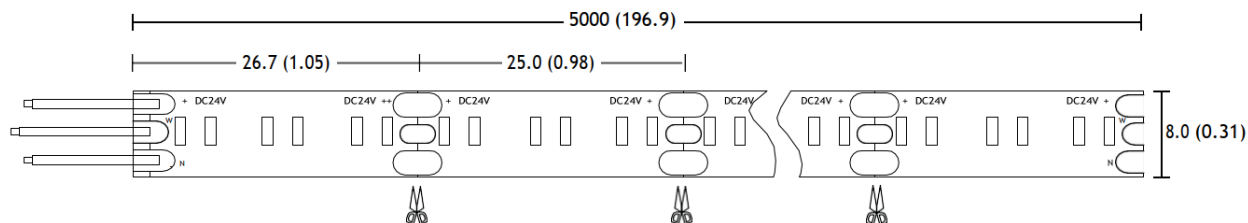
All data shown is nominal. Specifications and data are subject to change without notice.

PERFORMANCE OVER CCT RANGE vs DRIVE CURRENT RATIO

Model Number	CCT (K)	Flux (lm)	Efficacy (lm/W)	Power (W)	I (A)	CW Current Ratio	WW Current Ratio	CRI	R9
XFL-TW-245.2-24022-24/3595	2543	497	52	9.5	0.4	5%	95%	96	91
	2860	527	56	9.45	0.39	33%	67%	96	96
	2945	523	55	9.46	0.39	43%	57%	96	96
	3308	571	59	9.76	0.41	76%	24%	97	97
	3538	612	62	9.94	0.41	94%	6%	97	96
XFL-TW-246.0-24022-24/3595	2490	482	46	10.56	0.44	0%	100%	96	89
	2776	509	48	10.54	0.44	30%	70%	96	95
	3162	552	51	10.74	0.45	65%	35%	97	97
	3245	563	52	10.84	0.45	73%	27%	97	97
	3517	599	54	11.12	0.46	95%	5%	97	95

Note: Measured on a 1m sample

PROFILE DRAWINGS



Units: mm [inches]

MINIMUM BENDING RADIUS

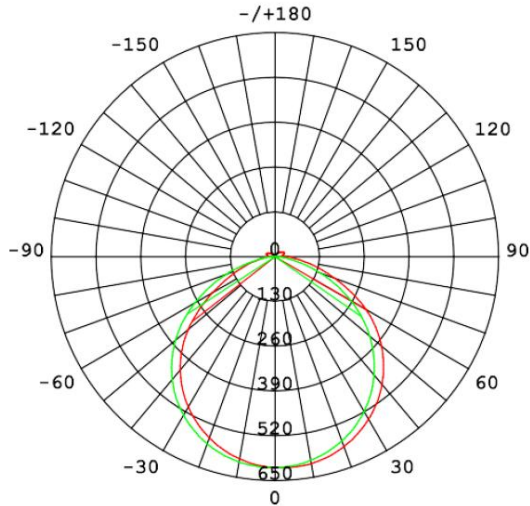
$R_{min} = 20 \text{ mm}$

Do not exceed minimum bend radius.
Exceeding will damage PCB traces.



All data shown is nominal. Specifications and data are subject to change without notice.

POLAR LUMINOUS INTENSITY



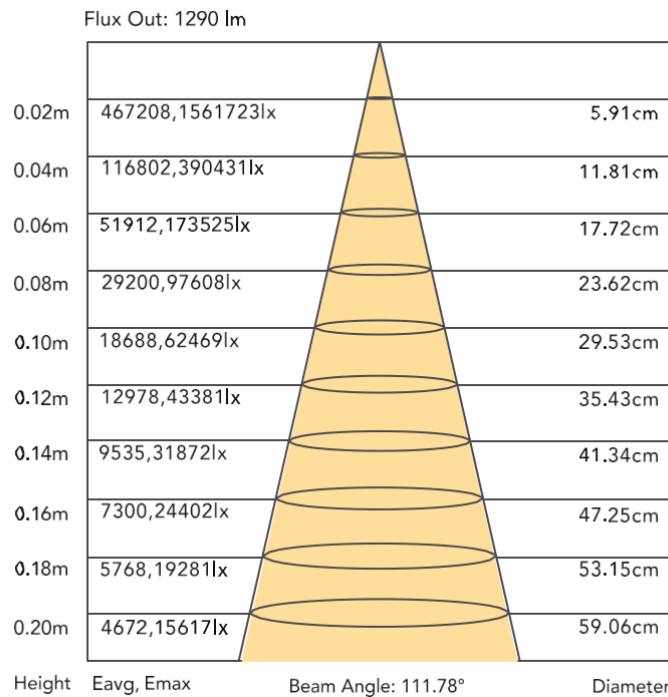
AVERAGE BEAM ANGLE(50%): 111.9°

Unit: cd

— C0/180,111.1°

— C90/270,112.0°

ILLUMINANCE CONE DIAGRAM



Note: The curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

SPECIFICATIONS FOR 2700K – 6500K

Model Number	CCT Range	Efficacy (lm/W)	Flux lm/m (lm/ft)	Power W/m (W/ft)	Max Run Length m (ft)
XFL-TW-245.3-19222-27/6595	2700K-6500K	≤110	≤1000 (≤305)	17.28 (5.3)	2 (6.56)

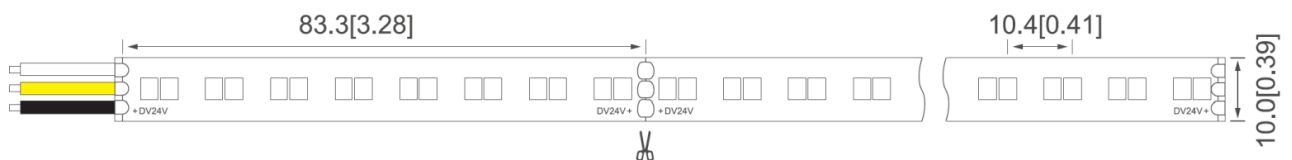
Model Number	Voltage	Ra	CCT	Flux (lm/m)	Efficiency (lm/W)	Power (W/m)
XFL-TW-245.3-19222-27/6595	24V DC	>95	2700K	1020	118	8.64
			6500K	1080	125	8.64
			WW+CW	2093	121	17.28

PERFORMANCE OVER CCT RANGE vs DRIVE CURRENT RATIO

Model Number	CCT (K)	Flux (lm)	Efficacy (lm/W)	Power (W)	I (A)	CW Current Ratio	WW Current Ratio	CRI	R9
XFL-TW-245.3-19222-27/6595	2687	949	104	9.15	0.381	12%	88%	96	83
	2962	907	104	8.69	0.362	21%	79%	95	93
	3186	873	105	8.31	0.346	35%	65%	95	97
	3676	816	106	7.72	0.322	48%	52%	93	91
	4183	779	106	7.33	0.305	64%	36%	93	86
	5030	730	107	6.82	0.284	74%	26%	93	85
	6611	998	110	9.07	0.378	93%	7%	95	93

Note: Measured on a 1m sample

PROFILE DRAWINGS



Units: mm [inches]
Use 18AWG parallel wire/sheathed cable in single feed

MINIMUM BENDING RADIUS

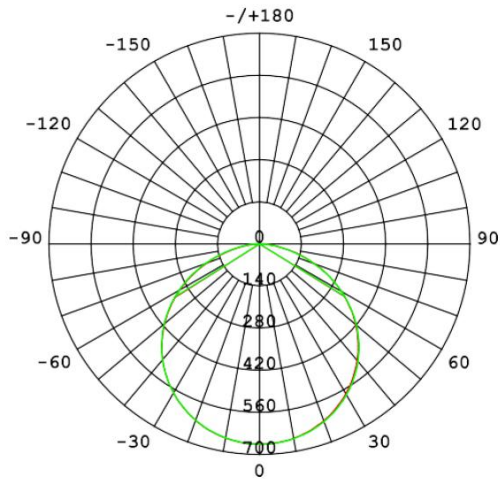
$R_{min} = 20 \text{ mm}$

Do not exceed minimum bend radius.
Exceeding will damage PCB traces.



All data shown is nominal. Specifications and data are subject to change without notice.

POLAR LUMINOUS INTENSITY



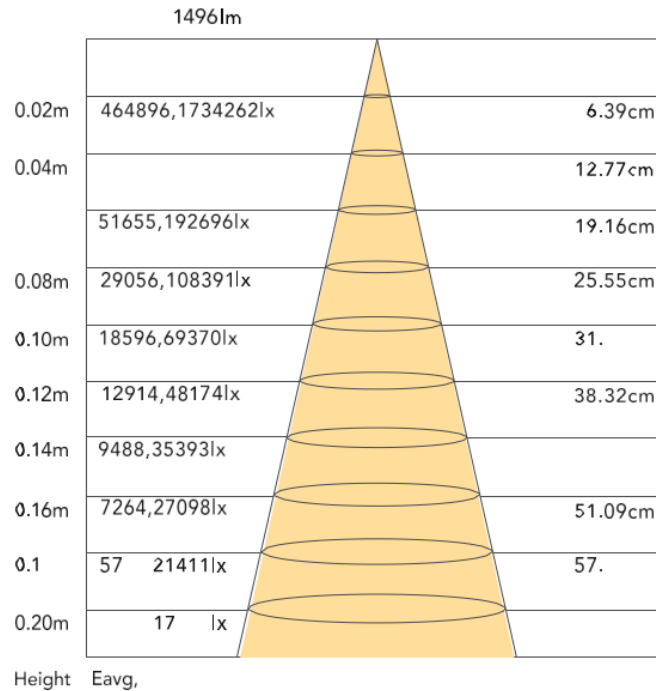
AVERAGE BEAM ANGLE(50%): 116.1°

Unit: cd

— C0/180,115.9°

— C90/270,116.4°

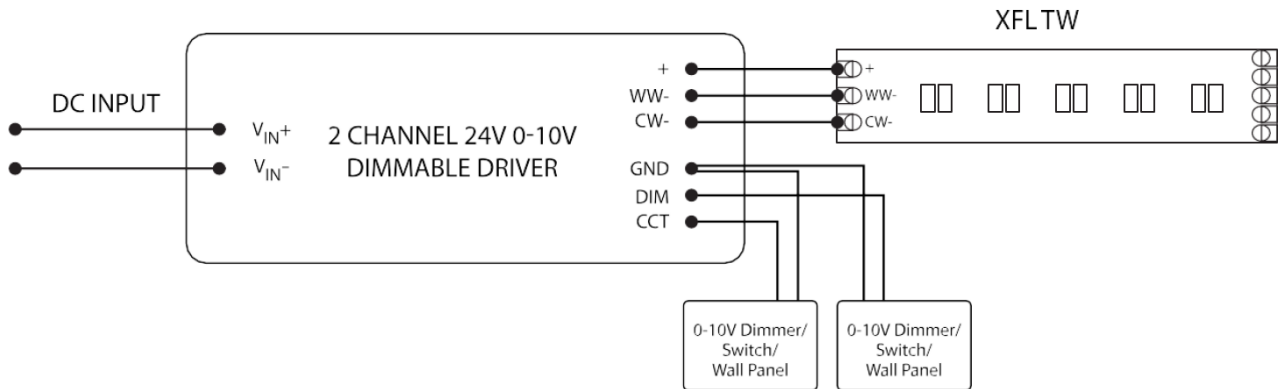
ILLUMINANCE CONE DIAGRAM



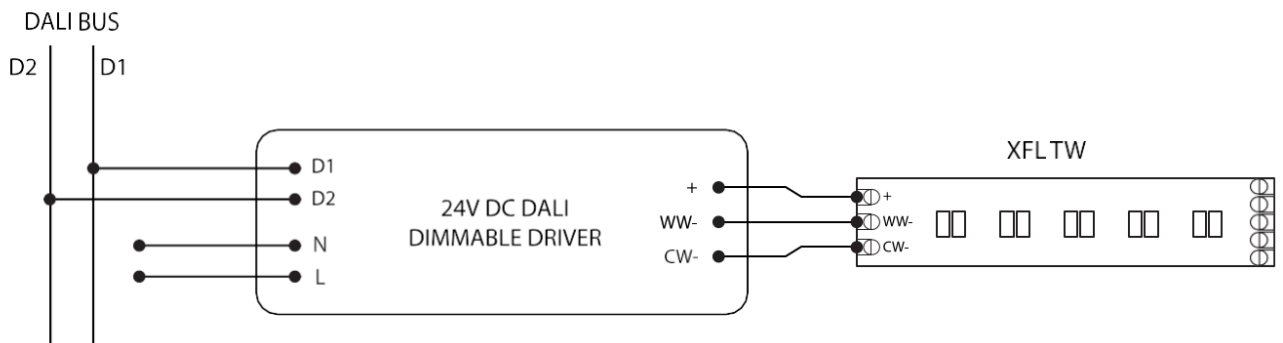
Note: The curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

POLAR LUMINOUS INTENSITY

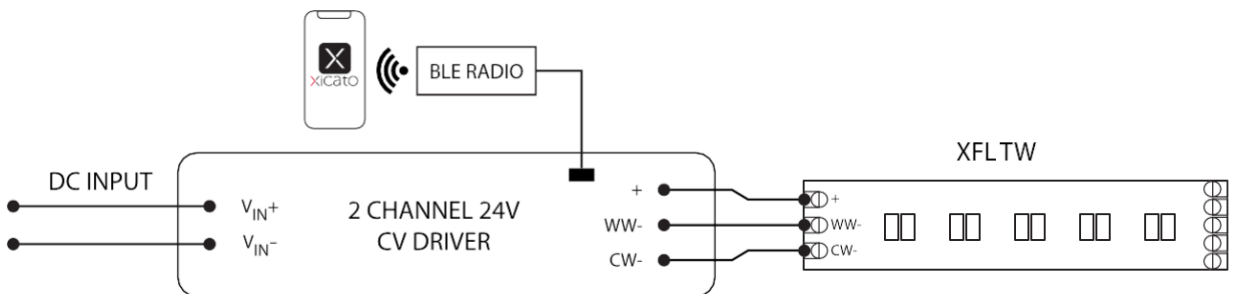
0-10V Wiring Diagram



DALI Wiring Diagram

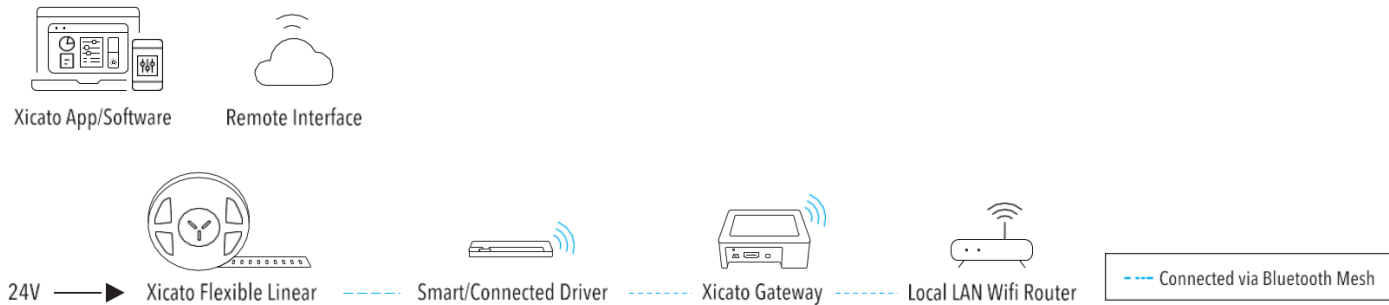


Wired + Wireless Wiring Diagram



XICATO XMESH CONTROL AND INTEGRATION

The XFL Portfolio is part of Xicato's comprehensive end-to-end systems, energizing environments through brilliant lighting and Smart Controls.

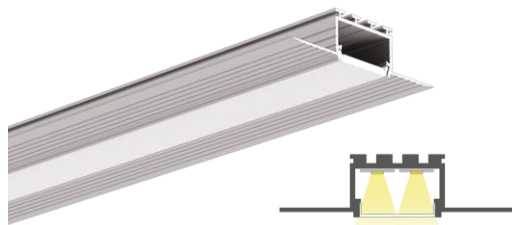


RECOMMENDED CHANNELS**SQUARE SERIES**

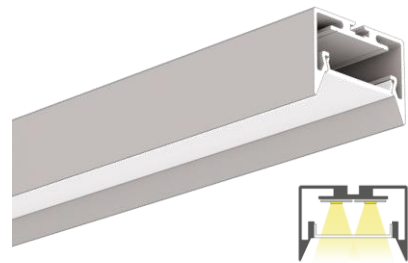
RECESSED
XCC-C-SQ-PDSNK



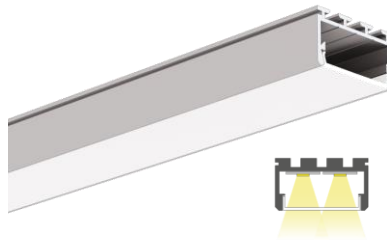
SURFACE / SUSPENDED
XCC-C-SQ-PDS4PLUS

RECTANGLE SERIES

MUD-IN RECESSED
XCC-C-RT-KOZUS



SUSPENDED
XCC-C-RT-GIZALLZMG



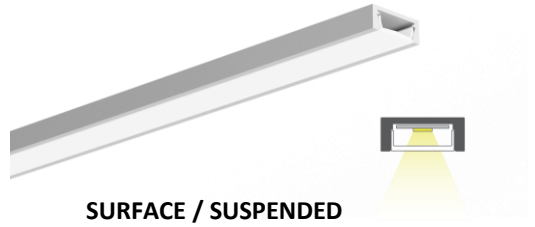
SURFACE
XCC-C-RT-GIZALL

RECOMMENDED CHANNELS

MICRO SERIES

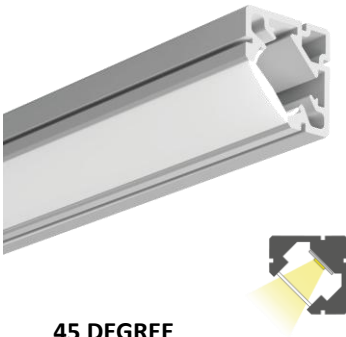


RECESSED
XCC-C-MC-MICRONK



SURFACE / SUSPENDED
XCC-C-MC-MICPLUS

SPECIALTY SERIES



45 DEGREE
XCC-C-SP-45PLUS



COVE / PERIMETER
XCC-C-SP-NISANI

RECOMMENDED ENDCAPS AND MOUNTS

SQUARE SERIES

Model	Type	Finish	XCC-E-SQ-PDS4PLUS	XCC-C-SQ-PDSNK
XCC-E-SQ-PDS4PLUS-GR-STD	End Cap	Gray	✓	
XCC-E-SQ-PDS4PLUS-WH-STD	End Cap	White	✓	
XCC-E-SQ-PDS4PLUS-BK-STD	End Cap	Black	✓	
XCC-E-SQ-PDS4PLUS-GR-HOLE	End Cap with Hole	Gray	✓	
XCC-E-SQ-PDS4PLUS-WH-HOLE	End Cap with Hole	White	✓	
XCC-E-SQ-PDS4PLUS-BK-HOLE	End Cap with Hole	Black	✓	
XCC-E-SQ-PDSNK-GR-STD	End Cap	Gray		✓
XCC-E-SQ-PDSNK-WH-STD	End Cap	Clear Plastic		✓
XCC-E-SQ-PDSNK-BK-STD	End Cap			✓
XCC-E-SQ-PDSNK-GR-HOLE	End Cap with Hole			✓
XCC-E-SQ-PDSNK-WH-HOLE	End Cap with Hole			✓
XCC-E-SQ-PDSNK-BK-HOLE	End Cap with Hole			✓
XCC-M-SQ-PDS4PLUS-PDS-WH	Mounting Bracket	White	✓	
XCC-M-SQ-PDS4PLUS-PDS-BK	Mounting Bracket	Black	✓	
XCC-M-SQ-PDS4PLUS-PDSSTN-SL	Mounting Bracket	Stainless Steel	✓	
XCC-M-SQ-PDS4PLUS-PLPDM-GR	Mounting Bracket	Gray	✓	
XCC-M-SQ-PDS4PLUS-PDSSTN90D-SL	90Deg Mount	Stainless Steel	✓	
XCC-M-SQ-PDS4PLUS-REGPD-GR	Adjustable Mount	Gray	✓	

RECOMMENDED ENDCAPS AND MOUNTS

RECTANGLE SERIES

Model	Type	Finish	XCC-C-RT-GIZALLZMG	XCC-C-RT-GIZALL	XCC-C-RT-KOZUS
XCC-E-RT-GIZALL-GR-STD	End Cap	Gray		✓	
XCC-E-RT-GIZALL-WH-STD	End Cap	White		✓	
XCC-E-RT-GIZALLZMG-GR-STD	End Cap	Gray	✓		
XCC-E-RT-GIZALLZMG-BK-STD	End Cap	Black	✓		
XCC-E-RT-KOZUS-GR-STD	End Cap	Gray			✓
XCC-M-RT-GIZALL-GIP-GR	Mounting Bracket	Gray		✓	
XCC-M-RT-GIZALL-GIP-BK	Mounting Bracket	Black		✓	
XCC-M-RT-GIZALL-REGIP-GR	Adjustable Mount	Gray		✓	
XCC-M-RT-GIZALL-GIPSTN-SL	Mounting Bracket	Stainless Steel		✓	

MICRO SERIES

Model	Type	Finish	XCC-C-MC-MICROPLUS	XCC-C-MC-MICRONK
XCC-E-MC-MICROPLUS-GR-STD	End Cap	Gray	✓	
XCC-E-MC-MICROPLUS-WH-STD	End Cap	White	✓	
XCC-E-MC-MICROPLUS-BK-STD	End Cap	Black	✓	
XCC-E-MC-MICROPLUS-GR-HOLE	End Cap with Hole	Gray	✓	
XCC-E-MC-MICROPLUS-WH-HOLE	End Cap with Hole	White	✓	
XCC-E-MC-MICROPLUS-BK-HOLE	End Cap with Hole	Black	✓	
XCC-E-MC-MICRONK-GR-STD	End Cap	Gray		✓
XCC-E-MC-MICRONK-BK-STD	End Cap	Clear Plastic		✓
XCC-E-MC-MICRONK-GR-HOLE	End Cap with Hole			✓
XCC-E-MC-MICRONK-BK-HOLE	End Cap with Hole			✓
XCC-M-SQ-PDS4PLUS-PDS-WH	Mounting Bracket	White	✓	
XCC-M-SQ-PDS4PLUS-PDS-BK	Mounting Bracket	Black	✓	
XCC-M-SQ-PDS4PLUS-PDSSTN-SL	Mounting Bracket	Stainless Steel	✓	
XCC-M-SQ-PDS4PLUS-PLPDM-GR	Mounting Bracket	Gray	✓	
XCC-M-SQ-PDS4PLUS-PDSSTN90D-SL	90Deg Mount	Stainless Steel	✓	
XCC-M-SQ-PDS4PLUS-REGPD-GR	Adjustable Mount	Gray	✓	

RECOMMENDED ENDCAPS AND MOUNTS

SPECIALTY SERIES

Model	Type	Finish	XCC-C-SP-45PLUS	XCC-C-SP-NISANI
XCC-E-SP-45PLUS-GR-STD	End Cap	Gray	✓	
XCC-E-SP-45PLUS-WH-STD	End Cap	White	✓	
XCC-E-SP-45PLUS-BK-STD	End Cap	Black	✓	
XCC-E-SP-45PLUS-R-GR-STD	End Cap (Rounded)	Gray	✓	
XCC-E-SP-45PLUS-R-WH-STD	End Cap (Rounded)	White	✓	
XCC-E-SP-45PLUS-R-BK-STD	End Cap (Rounded)	Black	✓	
XCC-E-SP-45PLUS-GR-HOLE	End Cap with Hole	Gray	✓	
XCC-E-SP-45PLUS-WH-HOLE	End Cap with Hole	White	✓	
XCC-E-SP-45PLUS-BK-HOLE	End Cap with Hole	Black	✓	
XCC-E-SP-45PLUS-R-GR-HOLE	End Cap with Hole (R)	Gray	✓	
XCC-E-SP-45PLUS-R-WH-HOLE	End Cap with Hole (R)	White	✓	
XCC-E-SP-45PLUS-R-BK-HOLE	End Cap with Hole (R)	Black	✓	
XCC-E-SP-NISANI-GR-STD	End Cap	Gray		✓
XCC-M-SP-45PLUS-45STN-SL	Mounting Bracket	Silver	✓	
XCC-M-SP-45PLUS-45STN-WH	Mounting Bracket	White	✓	
XCC-M-SP-45PLUS-45STN-BK	Mounting Bracket	Black	✓	

RECOMMENDED COVERS AND LENSES

Channel Extrusion	Frosted	Clear	Satin	Black
Micro				
XCC-C-MC-MICRONK 	XCC-L-HS11-FR	XCC-L-HS11-CL	XCC-L-LIGER11-ST	XCC-L-LIGER11-BK
XCC-C-MC-MICPLUS 	XCC-L-HS11-FR	XCC-L-HS11-CL	XCC-L-LIGER11-ST	XCC-L-LIGER11-BK
Square				
XCC-C-SQ-PDSNK 	XCC-L-HS11-FR	XCC-L-HS11-CL	XCC-L-LIGER11-ST	XCC-L-LIGER11-BK
XCC-C-SQ-PDS4PLUS 	XCC-L-HS11-FR	XCC-L-HS11-CL	XCC-L-LIGER11-ST	XCC-L-LIGER11-BK
Rectangle				
XCC-C-RT-KOZUS 	XCC-L-HS22-FR	XCC-L-HS22-CL	XCC-L-LIGER22-ST	XCC-L-LIGER22-BK
XCC-C-RT-GIZALL 	XCC-L-HS22-FR	XCC-L-HS22-CL	XCC-L-LIGER22-ST	XCC-L-LIGER22-BK
XCC-C-RT-GIZALLZMG 	XCC-L-HS22-FR	XCC-L-HS22-CL	XCC-L-LIGER22-ST	XCC-L-LIGER22-BK
Specialty				
XCC-C-SP-45PLUS 	XCC-L-HS11-FR	XCC-L-HS11-CL	XCC-L-LIGER11-ST	XCC-L-LIGER11-BK
XCC-C-SP-NISANI 	XCC-L-HS11-FR	XCC-L-HS11-CL	XCC-L-LIGER11-ST	XCC-L-LIGER11-BK

RECOMMENDED POWER SUPPLIES

XFL TW			
Standard Non-Dimmable			
Meanwell	LPV 20W	20W	✗
Meanwell	LPV 40W	40W	✗
Meanwell	LPV 60W	60W	✗
Meanwell	HLG-100H-24	96W	✗
ELV/Triac Dimmable			
Hatch	LV60-24T-UNV-RR	60W	✗
Hatch	LV96-24T-UNV-II	96W	✗
0-10V / PWM			
Meanwell	PWM-90-24	90W	✗
Meanwell	PWM-60-24	60W	✗
Meanwell	PWM-40-24	40W	✗
Ltech	LM-100-24-U2A2	96W	✓
Xicato	XMV-96V5D2M40-A6A*	96W	✓
DALI			
Ltech	LM-100-24-U2D2	96W	✓
ELDOLED	LIN100S1 / M1	96W	✓
DMX			
Ltech	LM-100-24-U2M2	96W	✓
ELDOLED	LIN100S1 / M1	96W	✓
Xicato Xmesh			
Xicato	XMV-96V5D2M40-A6A*	96W	✓

*XMV is a 24VDC driver and should be paired with an adequate standard non-dimmable driver in order to work with AC power source.

WARRANTY

10

YEAR WARRANTY

Limited Product Warranty

What is Covered

Xicato warrants the XFL product against defects in materials and workmanship for 10 years from date of purchase when used in accordance with product specifications and installation guidelines.

SAFETY AND INSTALLATION WARNINGS

1. Install per local/national electrical code by a licensed electrician.
2. Power with UL Listed Class 2, 24VDC power supply only.
3. Disconnect power before cutting or connecting tape light.
4. Do not exceed maximum run length. Cut at designated cut points only.
5. Do not power LED tape while coiled on reel.
6. Adhere to clean, dry mounting surface free of oils, silicones, and contaminants.
7. Do not install where ambient temperature exceeds rated range.
8. Verify all component compatibility before installation.
9. Do not stare directly into illuminated LED light.
10. Store unused product in anti-static bag.
11. Failure to follow instructions voids warranty.

Consumer Acknowledgment

Please read full Terms and Conditions at xicato.com. Licensed professionals strongly recommended.